

KAIMANOVA-GROSHEVA, L.M.

Local anesthesia in therspeutic abortion. Sov.med. 22 no.4:127-128

Local anesthesia in therspeutic abortion. Sov.med. 22 no.4:127-128

Ap '58

1. Is kafedry akusherstva i ginekologii (zav. - prof. I.F. Zhordaniya)
lechebnogo fakul'teta II Moskovekog meditsinskogo instituta imeni
N.I. Pirogova i gorodskoy bol'nitsy No.40 Koskvy (glavnyy vrach
Yn. I. Shipotovakiy).

(ABORTION, THERAFEUTIC
local anesth. (Rus))
(ANESTHESIA, LOCAL
in ther. abortion (Rus))

KALMANOVA-GROSHRYA L.M.

Cytological investigations of bloody uterine discharges during menstruction and in hemorrhagic metropathy. Vop.okh.mat. 1 det. 4 no.4:58-60 Jl-Ag 159. (MIRA 12:12)

1. Iz ginekologicheskogo otdeleniya (zav. - L.M. Kalmanova-Grosheva) gorodskoy bol'nitsy No.40 Moskvy (glavnyy vrach Ya.S. Shipotovskiy). (HEMORRHAGE, UTERINE) (MENSTRUATION)

KALMANOVA-GROSHEVA, L.M., kand.med.nauk

Endometricsis in a cicatrix of the anterior abdominal wall after a cesarean section. Vop. okh. mat. i det. 7 no.3:60-62 Mr 162.

(MIRA 15:5)

1. Iz ginekologicheskoy kliniki (zav. - prof. I.S.Krayevskaya) Nauchno-issledovatel'skogo onkologicheskogo instituta imeni P.A. Gertsena (dir. - prof. A.N. Novikov). (CESAREAN SECTION) (1

(ENDOMETRIOSIS)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130001-8"

KALMANOVICH,

RUMANIA / Chemical Technology. Processing of Naturally H

Deposited Solid Fuels.

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 75204.

: Zorio, Kalmanovich. Author

: Not given. : Utilization of Rumanian Coals as Ion Exchange Inst

Title Materials.

Orig Pub: Rev. chim., 1957, 8, No 12, 760-762.

Abstract: A report is given on the experiments that were

made on raw and sulfonated coal, from Kapen', Ilien' and Vyrgich. PNP, which were used as ion exchange materials for water purification. In addition to that, a sulfonated coal was used for the purification of juices in the sugar in-

dustry.

Card 1/1

APPROVED FOR RELEASE: 08/10/2001 KALMANOVICH, A.M. [Kalmanovych, A.M.] CIA-RDP86-00513R000620130001-8'

Semigroups of partial endomorphisms of a graph. Dop. AN (MIRA 18:2) URSR no.2:147-150 '65.

1. Komunarskiy gornometallurgicheskiy institut.

KAL'MANOVICH, B. L.

"Water and Food Factors in the Epidemiology of Typhoid Fever in the RSFSR During the Second World War." Sub 7 Apr 47. First Moscow Order of Lenin Medical Inst

Dissertations presented for degrees in science and engineering in Moscow in 1947

SO: Sum No. 457, 18 Apr 55

DESTRUCTION OF A PROPERTY OF A PROPERTY OF THE ACCUSANCE OF A PROPERTY O

KAL'MANOVICH, B. L.

Kallmanovich, B. L. - "Prevention of contagious childhood diseases," Doshkol. vospitaniye, 1949, No. 3, p. 33-37

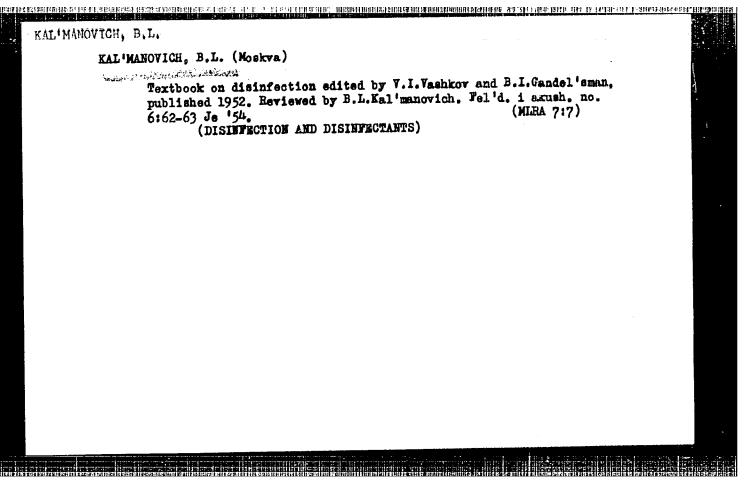
SQ: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

KAL MANOVICH, B.L.

7891. KAL'MANOVICH, B. L. Metodicheskiye ukazaniya k prepodavaniyu epidemiologii v meditsinskikh uchilishchakh. m., medgiz, 1954. 46s. 20 sm. 4.000 EKZ. 1R. 20 K.-- (55-3761) P

616.9-036(077)

SO: Knizhuaya Letopis', Vol. 7, 1955

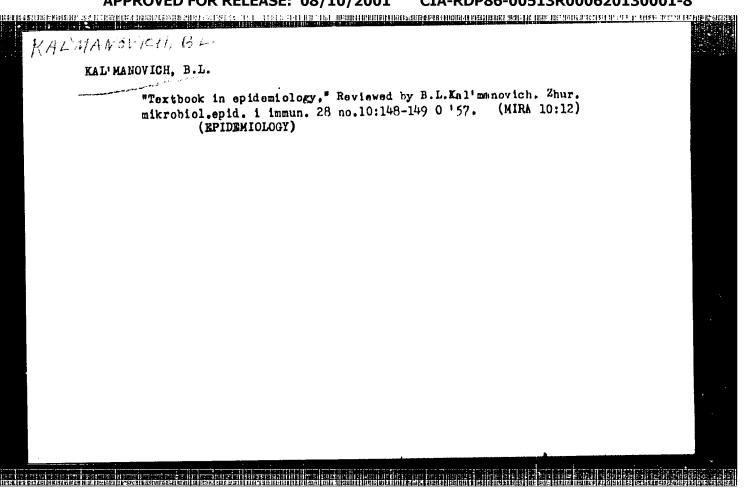


KAL'HANOVICH, B.L.

"Infectious diseases". I.A. Minkevich. Reviewed by B.L.

Kal'manovich. Sov. med. 20 no.3:94-95 Mr. '56

(MINKEVICH, I.A.)
(COMMUNICABLE DISMASES)



ESTRIN, M.I., kand.tekhn.nauk; KAL'MANDVICH, E.L., kand.tekhn.mauk

Investigating basic parameters of concrete vibrators used in concrete finishing machines. Sbor.trud.vnIIStroidornash.Lenfil.

(MIRA 12:7)

(Road machinery) (Favements, Concrete)

GENERAL CONTROL OF THE STATE OF

KAL'MANOVICH, F. L.

"Effect of Decreased Content of Protein in Food Rations on the Growth of Rats and on the Content of Protein in Their Organs."
Sub 21 Jun 51, Acad Med Sci USSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

WW/DD/RM L 28978-66 EWT(1)/EWT(m)/EWP(j)/T ACC NR: AP6019161 UR/01140/65/000/005/0074/0175 SOURCE CODE: AUTHOR: Kal'manovich F. L. (Candidate of biological science) ORG: Institute of the Hygiene of Children and Adolescents, ANN SSER, Hoscow (Institute gigiyeny detey i podrostkov AMN SSSR) TITLE: Experience in using the simplified TG-5A gas analyzed to determine low ! concentrations of carbon dioxide in the air 10 SOURCE: Gigiyena i sanitariya, no. 5, 1965, 74-75 TOPIC TAGS: gas analyzer, carbon dioxide, carbon monoxide, gas analysis/TG-5A gas analyzer ABSTRACT: The author describes how he modified for CO2 analysis a simplified gas analyzer originally designed by D. P. Sendrikhina in 1951 for the analysis of hydrocarbons and carbon monoxide. The accuracy of the new modification was checked with reference to the Reberg micrometer, using 30 samples. In 17 cases the results were the same and in 13 the difference was ± 0.002 vol.%. A single determination in this gas analyzer takes 15-17 min compared with 40-45 min required when using the Reberg micrometer. The modified gas analyzer is suitable for mass analyses of air under laboratory and, particularly, expedition conditions. It the need arises, the apparatus can be altered back to its standard form for the analysis of hydrocarbons and carbon monoxide. Thus the difficulties involved when using the Reberg missioneter for mass analyses of CO2 in the air are in this case avoided. Orig. art. has: 1 figure. [JPRS] SUB CODE: 07, 04 SUBM DATE: 04Dec63 ORIG REF: 003 Card 1/1œ

Quantitative determination of alloy conscions test transfer. Izv. AN SSSR 276 Mr-Ap '54. 1. Kalushskiy turbinnyy savod. (Alloys-Spectra)	omponents by a "stylo- Ser.fiz.18 no.2:275- (MLRA 7:11)
l. Kalushskiy turbinnyy savod. (AlloysSpectra)	
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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130001-8"

USSR/Chemistry - Quantitative analysis

Card 1/1

Pub. 43 - 53/97

Authors

Kalmanovich, I. Z.

Title

Quantitative determination of elements in allays on a styloscope by the

method of sample transfer

Periodical:

Izv. AN SSSR. Ser. fiz. 18/2, 275-276, Mar-Apr. 1954

Abstract

The development of a mothod for quantitative determination of elements on a styloscope by transferring the sample into an AC-arc, is reported. Determination of Cr in steel was carried out according to Cr spectral lines 5208.44 R. Kn was determined according to the Min 4825.51 It line. Zn was determined according to Zn 4722.16 x 11mm.

Institution

The Turbine Plant, Kaluzha

Submitted

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130001-8"

KAIMANOVICH, K.M.; DUBINSKIY, M.B.

Acute appendicitis and labor. Akush. i gin. 34 no.3:108-109 My-Je '58.

(NIRA 11:6)

1. Iz akusherskoy kliniki (rukovoditel' - prof. R.L.Shub) i khirugicheskoy kliniki (rukovoditel' - prof. A.F.Ispuksln) l-y gorodskoy
klinicheskoy bol'nitay (glavnyy vrach E.V.Cherepovich), Rigs.

(LABOR, compl.
appendicitis, acute (Rus))

(APPENDICITIS, in pregn.
acute, in labor (Rus))

KAMALOV, K.; VISHNYAKOVA, A.A.; IVANOV, V.P.; NABIYEV, M.N.; SALOVSKIY, K.D.; ROZFNOVICH, V.A.; KALMANOVICH, L.A.

Development of the production technology for ammoniated superphosphate on the basis of a granulation equipment. Uzb.khim. zhur. 9 no.1:58-61 '65. (MIRA 18:6)

1. Institut khimii AN Uzbekskoy SSR.

PELEVIN, L.; NAYANZIN, I., inzh.; BATURIN, N.; RMY, Yu., tekhnolog (g.Khar'kov); TSIPERFIN, I.; KARLENKOV, B., aktivist; SERGIYENYA, K., normirovshchik; IGNATOV, L. (g. Tashkent)

From readers' letters. Izobr.i rats. no.6:38-40 Je 159. (MIRA 12:9)

STATE OF THE STATE

1. Nachal nik proizvodstvenno-tekhnicheskogo otdela neftepromyslovogo upravleniya "Tuymazyneft'", g.Oktyabr'skiy, BashASSR (for Pelevin). 2. Proizvodstvenno-tekhnicheskiy otdel neftepromyslovogo upravleniya "Tuymazyneft!", g. Oktyabr'skiy, BashASCR (for Nayanzin). 3. Starshiy inzhener tekhnicheskogo otdela parovozno-vagonnogo zavoda, g. Ulan-Ude (for Baturin). 4. Nachal'nik Byuro sodeystviya ratsionalizatsii i isobretatel'stvu Odesskogo zavoda zapasnykh chastey, g.Odessa (for TSiperfin). 5. Nachal'nik Byuro sodeystviya ratsionalizatsii i izobratatel'stvu Penzenskogo dizel'nogo zavoda, g. Penza (for Karlenkov). 6. Nikolayevskiy oblastnoy sovet Vsesdyuznogo obshchestva izobretateley i ratsionalizatorov, g. Mikolayev (for Kal'manovich). 7. Khar'kovskiy traktornyy zavod, g. Khar'kov (for Sergivenya).

(Efficiency, Industrial)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130001-8"

KISELEV, N. (Kiyev); OL'SHANOV, Ye.; (Khabarovsk); RYABOV, M. (Lipetsk);

KAL'MANOVICH, M., aktivist; ROMANOV, V., inch. (g. Izhevsk);

VOSTRYAKOV, I.

INTERNATIONAL DE CONTROL DE CONTROL DE CONTROL DE LA CONTROL DE LA CONTROL DE CONTROL DE LA CONTROL

From letters. Izobr.i rats. no.12:36-37 D 159. (MIRA 13:8)

1. Starshiy inzhener Ukrainskogo respublikanskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Kiselev).
2. Sekretar! Khabarovskogo krayevogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Ol'shanov). 3. Predsedatel! Lipetskogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Ryabov). 4. Oblastnoy sovet
Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov g. Nikolayev (for Ka'manovich). 5. Planovo-tekhniko-ekonomicheskiy otdel
Izhevskogo otdeleniya Kazanskoy zheleznoy dorogi (for Romanov).
6. Starshiy inzhener Byuro sodeystviya ratsionalizatsii i izobretatel'stvu Sredneural'skogo medeplavil'nogo zavoda, g.Revda.

(Technological innovations)

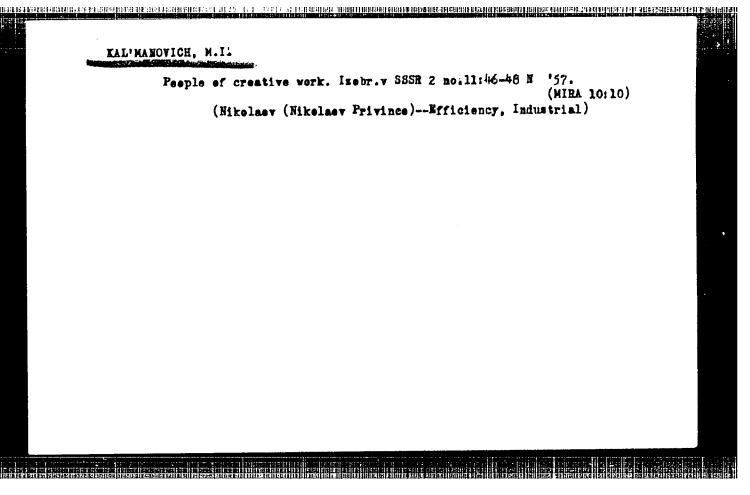
KAL'MANOVICH, M.A., inzh.; TARANCHEV, V.V., inzh.

Experience in adjusting and operating high-frequency protection channels on a 400 kv. power transmission line. Trudy VNIIE no.7:226-243 '58. (MIRA 16:12)

INTERPRETARIES DE LA PRESENTA DE LA PRESENTA DE LA PERSONA DE LA PERSONA DE LA PRESENTA DE LA PROPERTA DEL PROPERTA DE LA PROPERTA DE LA PROPERTA DE LA PROPERTA DEL PROPERTA DE LA PROPERTA DEL PR

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130001-8"



KAL'MANDVICH, M.I., instruktor

Mass participation is the pledge of success. Izobr. i rats.

10.9:43 S '58.

1. Nikolayevskiy bhlastnoy Sovet Vsesoyusnogo obshchestva
isobretateley i rabionalizatorov.

(Nikolayev Province-Efficiency, Industrial)

KOROL'KOV, I.I.; KAL'MANOVICH, S.L.; VITEL'S, V.L.; EFROS, I.N.

Introducing automatic control for the stabilization of hydrolysis processes. Gidrolis.i lesokhim.prom. 13 no.4: 11-14 '60. (MIRA 13:7)

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1. Nauchno-issledovatel'skiy institut gidroliznoy i sul'fitnospirtovoy promyshlennosti (for Kal'manovich). 2. Segezhskiy gidroliznyy zavod (for Efros). (Segezha-Hydrolysis) (Automatic control)

NIKONOROV, N.M.; MARSOV, A.V.; YERVAKOV, P.Ye.; KAL'MANOVIGH,
S.L., kand. tekhm. nauk, red.; KUREPINA, G.N., red.ind-va;
SPERANSKAYA, O.V., tekhn. red.

[Handbook on laboratory weighing instruments and Weights]
Spravochnik po laboratornym vesam i giriam. Moskva,
Mashgiz, 1963. 191 p.

(Laboratories—Equipment and supplies)

(Weights and measures)

KAL'MANOVICH, S.L., kand.tekhn.nauk, dotsent

Regulating the depth of the surface layer and residual technical stresses for increasing the reliability of parts, Izv.vys. ucheb. zav; mashinostr. no. 12:210-220 '63. (MIRA 17:9)

1. Leningradskiy politekhnicheskiy institut.

25(6) 50V/135-59-3-21/24

AUTHORS: Strizhevskiy, I.I., Candidate of Technical Sciences, and

GALITA DEL ESTADA DE RECONSTRUIR DE LA COLOR DE LA COL

Kal'manovich, S.P., Engineer

TITLE: A New Standard for Water Seals, and Methods of Testing Them

(Novyy standart na vodyanyye zatvory i sposoby ikh is-

pytaniy)

PERIODICAL: Svarochnoye proizvodstvo, 1959, Nr 3, pp 40-43 (USSR)

ABSTRACT: Information is presented on the new state standard "GOST

8766-58" for the safety seals of acetylene generators. It is stated that industrial plants have been producing their own safety seals, and not always in conformity with the safety rules. There were no standard regulations for tests of the seals. The new standard includes such test rules. The article includes detailed information on the design and work-

ing principles of the water seals, the principles of the

Card 1/2

SOV/135-59-3-21/24

A New Standard for Water Seals, and Methods of Testing Them

tests, and a detailed and illustrated description of a test installation (Fig. p 42). The new designs must now be approved by VNIIAVTOGEN. There is 1 diagram and 1 table.

ASSOCIATION: VNIIAVTOGEN

Card 2/2

CIA-RDP86-00513R000620130001-8 "APPROVED FOR RELEASE: 08/10/2001

18(5)

AUTHORS:

SOV/135-59-11-13/26

Strizhevskiy, I.I., Candidate of Technical Sciences, and Kalimana-

vich, S.P., Engineer

TITLE:

Welded Acetylene Tanks

PERIODICAL:

Svarochnoye proizvodstvo, 1959, Nr 11, pp 31-33 (USSR)

ABSTRACT:

For transportation and storage of dissolved acetylene, balloons of capacity, Type 40-100 according to GOST 949-57, are used. The shells of these balloons are manufactured from steel seamless tubes 219 mm in diameter with a wall thickness of at least 5.2 mm. The standardized balloon weight is 43.5 kg; however, at the present, the plants menufacture only such ballons which have a wall thickness of 7-8 mm, and sometimes even 8.5 mm. In this case, the weight of a balloon amounts to 63.5 kg. In 1957-58, the VNIIAVTO-GEN developed a new welded light weight construction for acety-

Card 1/1

lene balloons of a 601 capacity. It received the name BAS-1-58 (Fig 1); its pertinent specifications are given in Table 1. There

are 1 graph, 2 tables, 1 diagram and 1 photograph.

ASSOCIATION: VNIIAVTOGEN

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130001-8"

STRIZHEVSKIY, I.I., kand.khimicheskikh nauk; KAL'MANOVICH, S.P., insh.

Determination of the granulometric characteristic and specific surface of calcium carbide pieces of various size. Trudy VMII-Avtogen no.6;114-133 '160.

(Particle size determination)

(Calcium carbide)

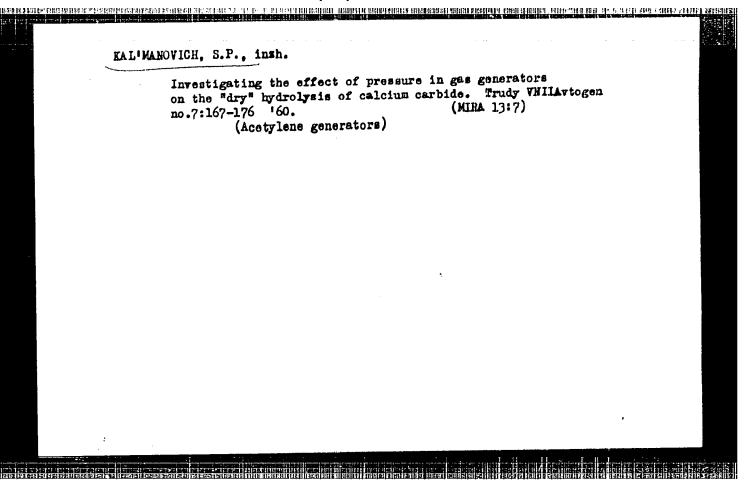
STRIZHEVSKIY, I.I., kand.khimicheskikh nauk; KAL'MANOVICH, S.P., inzh.

Material balance of the carbide hydrolysis process in

"carbide to water"-type generators. Trudy VHIIAvtogen

no.7:148-166 '60. (MIRA 13:7)

(Acetylene generators)



STRIZHEVSKIY, I.I., kand.khimicheskikh nauk; KAL'MANGVICH, S.P., inzh.

Properties and thickening methods of carbide pulp. Trudy
VNIIAvtogen no.8:153-169 '62. (MIRA 15:6)
(Calcium carbide)

STRIZHEVSKIY, I.I., kand.khimicheskikh nauk; KAL'MANOVICH, S.P., inzh.

Dry fire barriers. Trudy VNIIAvtogen no.8:181-187 '62.

(MIRA 15:6)

(Acetylene—Pipelines) (Fires and fire prevention)

KAL'MANOVICH, S.P., inzh.; STRIZHEVSKIY, I.I., kand. khim. nauk; Prinimala uchastiye: ZAYTSEVA, V.P., inzh.

Acetylene purification by liquid nitric acid. Trudy VNIIAVtogen no.9:124-135 '63. (MIRA 16:12)

STRIZEEVSETY, I.I., kand, khim. nauk; KAL'MANOVICH, S.P., inst.

Automatic filling with acetone of acetylene cylinders. Trudy
VNIJAvtogen no.11:131-139 '64.

(MIRA 18:3)

YEKTOV, I.M.; ZARUYEV, V.M.; GUROV, S.A.; REVENKO, I.F.; V rabote prinimali uchastiye: KAIMANOVIGH, Ju.R.; GHIGGE'YEV, F.H.; KOSHELENKO, A.M.; LITVINENKO, Yu.P.; DMITRIYEV, V.D.; POLYAKOV, V.V.; PETUSHKOV, Y.S.; FIRSOT, P.V.

Rolling double bulb-bar shapes with longitudinal cutting in the finishing mill. Stal' 20 no. 12:1113-1115 D '60... (MRA 13:12)

1. Stalinskiy metallurgicheskiy zavod 1 Donetskiy politekhnicheskiy institut.

(Rolling (Metalwork))

THE REAL PROPERTY OF THE PROPE

KAL'MANOVICH, Z. M.

Sovremennye konstruktsii shtampov dlia kholodnoi shtampovki. Moskva, Mashgiz, 1949, 254 p.

(Modern designs of dies for cold stamping.)

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

Expanding the use of VOM-2M combines in the mines of the Moscow basin.

Ugol' 28 no.6:30-32 Je '53. (MLRA 6:6)

(Moscow Basin--Coal-mining machinery)

KAL'MANOVICH, Z.Z., inzh.; GOLOBOROD'KO, I.P.

Developing a standardization for cutter-loaders used in stopping. Ugol' 40 no.2:37-39 F '65. (MIRA 18:4)

1. Gosudarstvennyy proyektno-konstruktorskiy i eksperimentalinyy institut ugolinogo mashinostroyeniya (for Kalimanovich). 2. Dongipro-uglemash (for Goloborodiko).

EPR/ENF(1)/EPF(0)/ENF(q)/ENT(m)/EDS/ES(m)-2 PFTC/ ASD/SSD Ps-4/Pc-4/Pr-4/Pt-4/Pq-4 RM/WW/WH S/0081/63/000/009/0458/0458 ACCESSION NR: AR3004190 SOURCE: RZh. Khimiya, Abs. 9ML39 Kalmanovskaya, M. A. AUTHOR: TITLE: Dependence of the strength of glass plastics on the degree of drawing and glass fiber diameter CITED SOURCE: Steklo. Byul. Gos. n.-1. in-ta steklu, no. 14(114), 1962, 36-40 TOPIC TAGS: glass plastic, glass fiber, drawing, strength, glass forming TRANSLATION: Defects of inhomogeneity and cracks on the surface and in the volume of glass fiber (GF) depend on the rate of drawing and colling (forming) of the GF, i.e. on the degree of drawing. An increase in the degree of drawing of GF has a positive influence on the strength of glass plantics even to the range of small GF diameters. In practice, in the production of gless plastics, it is advisable to use a fiber with d 14-16 M, with as large a degree of drawing as possible, i.e. drawn from spinnerets of the largest possible dismeters at I. Mikhaylova. high rates. ENCL: SUB CODE: CH 19Jun63

LIBERMAN, A.D., kandidat ekhnicheskikh nauk; KAIMANOVSKIY, D.I., inzhener.

Precast reinforcad concrete schoolhouse roof. Biul.stroi.tekh.13
no.10:19-21 0 '56.

(Roofs) (Precast concrete construction)

KALMANOVSKIY, V.I.; KISELEV, A.V.; LEBEDEV, V.P.; SAVINOV, I.M.; SMIRNOV, N.Ya.; FIKS, M.M.; SHCHERBAKOVA, K.D.

Gas chromatography in glass capillary columns with a chemically modified surface. Zhur.fiz.khim. 35 no.6:1386-1388 Je '61.

(MIRA 14:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonesova i Dzerzhinskiy filial opytno-konstruktorskogo byuro avtomatiki Goskhimkomiteta.

(Gas chromatography)

ZHDANOV, S.P.; KALMANOVSKIY, V.I.; KISELEV, A.V.; FIKS, M.M.; YASHIN, Ya.I.

Use of porous glasses as adsorbents in gas chromatography.

Zhur.fiz.khim. 36 no.5:1118-1120 My '62. (MIRA 15:8)

1. Institut khimii silikatov AN SSSR; Opytno-konstruktorskoye byuro avtomatiki Gosudarstvennogo komiteta khimicheskoy promyshlennosti pri Sovete Ministrov SSSR, Dserzhinskiy filial i Moskovskiy gosudarstvennyy universitet imeni Lomonosova, khimicheskiy fakul'tet.

(Glass) (Adsorbents) (Gas chromatography)

BUROV, A.N.; KALMANOVSKIY, V.I.; FIKS, M.M.; YANSHIN, Ya.I.

Ionization methods for determining microimpurities in gases.
Trudy Kom, anal. khim. 13:247-256 '63. (KIRA 16:5)

(Ionization of gases) (Gas chromatography)

CIA-RDP86-00513R000620130001-8 "APPROVED FOR RELEASE: 08/10/2001

8/081/61/0013/003/005/036 B144/B186

AUTHORS:

Krylov, B. K., Kalmanovskiy, V. I.

RAISEN (VENERER BENER) (VENERER IN 1981) STEPPEN IN 1985 FOR THE STEPPEN OF THE PROPERTY OF THE PROPERTY OF THE

TITLE:

Technique for identifying the results of obsomatographic

analysis using a mass spectrometer

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 3, 1963, 119, abstract

3G34 (Tr. po khimii i khim. tekhnol. (Cor kly), no.4. 4961,

747-752)

TEXT: The mass spectrometer MN 1305 (MI 1305) (RThKhim, 1959, no. 5, 15686) was adapted for identifying chromatographically separated components of gaseous mixtures. Mass-spectrometric analysis was conducted by freezing out the fractions as well as by continuously admitting to the mass spectrometer the gases leaving the chromatographic column. In the first case components with a concentration of 0.5 + 1% in the initial mixture could be analyzed, in the second case those with up to 3% concentration. The volume of the sample introduced into the chromatograph was 10 - 30ml. The continuous admission of gases in viscous state was effected using a Cu capillary tube 15 cm in length and 0.3 mm in diameter, to the end of which a glass capillary 10 - 15 mm in length and 0.03 - 0.05 mm in Card 1/2 ----

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130001-8"

Technique	for identifying	ng the	the results		5/081/63 B144/B18	/000/ 6	′003/ 005	/036	
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Card 2/2									

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130001-8"

JOCHWEDS, B.; RAFALOWICZ, A.; KAIMAHOWICZ, A; DYKOWSKA, M.

Case of malignant hypertension with insignificant vascular changes. Polski tygod.lek. D no.28:938-940 11 July 155.

1. Z Oddz.Wew.: Kierewnik dec. dr B. Hechweds. Warszawa, Litewska 5, (HYPERTENSION, pathology, vasc.)

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JOCHWEDS, B.; KALMANOWICZ, A.

Late and very pronounced azotemia in myocardial infarction; report of two cases. Polski tygod. lek. 11 no.11;505-508 12 Mar 56.

1. Z Oddz. Wewn. Gentr. Sspitala MEP w Warszawie; ordynator: prof. dr. B. Jochweds. Warszawa, ul. Litewska 5.

(NITROGEM, in blood, excess in myocardial infarct. (Pol))

(BLOOD, asotemia in myocardial infarct (Pol))

(MYOCARDIAL INFARCT, blood in, azotemia (Pol))
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JOCHWEDS, B.: KALMANOWICZ, A.

Investigation on the effect of strophanthin on auriculoventricular conduction. Polski tygod. lek. 12 no.2:63-66
7 Jan 57.

1. (Z Oddzialu Chorob Wewnetrznych Gentralnego Szpitala MEP w Warszawa, Litewska 5.

(STROPHANTHIN, eff.

on auric.-ventric. conduction (Pol))

(HEART, eff. of drugs on strophanthin on auric.-ventric. conduction (Pol))

JOCHWEDS, Beniamin; KAIMANOWICZ, Alfred; LEDER, S.

Problem of splenectomy in endocarditis lenta, with report of a case. Polski tygod. lek. 12 no.22:833-835. 27 May 57.

1. Z Oddsialu Chorob Wewnetrsnych Centralnego Sspitala MEP; ordynator; prof. B. Jachweds, Adres: Werssawa, ul. Litewska 5 m. 1.

(ENDOCARDITES, SUBGUITE RACTERIAL, surgery, splenectomy (Pol))

(SPLEEN, surgery, excis. in subacute bact. endocarditis (Pol))

SHCHUKINA, M.N.; YERMOLAYEVA, V.G.; KAIMANSON, A.E.

Free radicals formed as intermediate products in the oxidation of pyridylthiazolylcarbinols and some other secondary carbinols. Dokl. AN SSSR 158 no.2:436-439 S *64. (MIRA 17:10)

1. Vsesoyumyy nauchno-issledovateliskiy khimiko-farmatsevticheskiy institut im. S.Ordzhonikidze. Predstavleno akademikom I.L.Rnunyantsem.

BLYUMENFEL'D, L.A.; KAIMANSON, A.E.

*lectronic paremagnetic resonance spectrs of biological objects
[with summary in English]. Biofizika 2 nd.5:552-565 '57.

(MIRA 10:11)

1. Otdeleniye biologicheskikh nauk AN SSSE, Moskvn. Gruppa
chl-korr. AN SSSE N.I.Orashohenkova.

(RADIATION-PHYSIOLOGICAL EFFECT)

(SPECTRUM ANALYSIS)

(PROTEINS)

KALMANSON, A.E.

AUTHORS:

Blyumenfel'd, L. A., Kalmanson, A. E.,

20-1-18/42

TITLE:

The Spectra of the Paramagnetic Resonance of the Electrons in the Case of Irradiated Native and Denaturized Albumin Substances (Spektry elektronnogo paramagnitnogo rezonansa obluchennykh nativnykh i denaturirovannykh belkov)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 117, Nr 1, pp. 72-74 (USSR)

ABSTRACT:

First it is referred to a previous paper on the subject by an author of this paper (reference 1). According to experiments carried out previously in the deceleration of the fermentative process in the case of soft denaturation or in the case of expansion of the "substrata" no spectra of the paramagnetic resonance of the electrons are ascertained. This gives evidence of the fact that the effect observed is caused by non-paired electrons which belong to the albumin structure and not to the metal ions and other paramagnetic admixtures. The electrons in the gliding zone of the albumin molecule can also be obtained by different method, that is by means of a ionizing radiation. Therefore the authors investigated the spectra of the paramagnetic resonance of the electrons of several irradiated native and denaturized albumin preparations, amino acids and peptides. The irradiation took place by rays of the Cobo with doses of ~ 10-5 irradiation took place by rays of the Cobo with doses of ~ 10-5

Card 1/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130001-8"

The Spectra of the Paramangetic Resonance of the Electrons in 20-1-18/42 the Case of Irradiated Native and Denaturized Albumin Substances.

ASSOCIATION: The Group of the Corresponding Member of the ANSSER N.I. Gra-

shchenkov at the Department for Biological Sciences of the AN SSSR (Gruppa dhlena-korrespondenta AN SSSR N.I. Grashchenkova

erangement in the second secon

pri Otdelenii biologicheskikh nauk Akademii nauk SSSR)

PRESENTED: July 15, 1957 by A.F. Ioffe, Academician

SUBMITTED: July 13, 1957

AVAILABLE: Library of Congress

Card 3/3

DE LE

BLYUMENFEL'D. L.A.; KALMANSON, E.A.

Micotronic peramagnetic resonance spectra of biological objects; effect of demoturation on electronic peramagnetic resonance spectra of irradiated proteins [with summery in English]. Biofizika 3 no.1: 87-91 '58. (MIRA 11:2)

1. Otdeleniye biologicheskikh neuk AN SSSR, Moskva. Gruppa chlena-korrespondenta AN SSSR N.I. Grashchenkova. (MUCIMAR MAGHETIC RESONANCE) (PROTEINS) (RADIATION—PHYSIOLOGICAL EFFECT)

(HRAT—PHYSIOLOGICAL EFFECT)

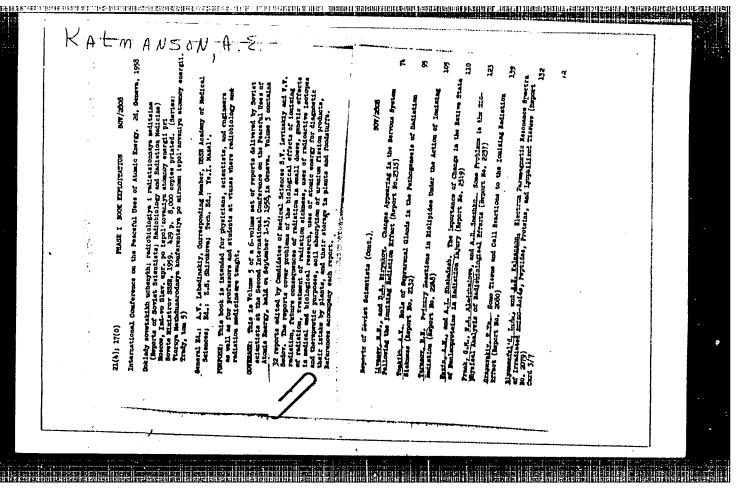
REPORT AND DELIGIOUS PROGRESS OF A SUPERS IN THE ACT OF THE SUBJECT OF BUILDING AND A SUBJECT OF THE SUBJECT OF

KALMANSON, A.E.; BENUMENFEL'D, L.A.

Electron paramagnetic resonance spectra of native and denatured proteins, Biofizika 3 no.6:735 '58. (MIRA 12:1)

1. Laboratoriya anizotropnykh struktur AN SSSR, Moskva. (PROTEINS.

spectra of paramagnetic electronic resonance of native & denaturated proteins (Rus))



BUTYAGIN, P.Yu.; BERLIN, A.A.; KALMANSON, A.E.; BLYUMENFEL'D, L.A.

Formation of macroradicals in the mechanical destruction of vitrified polymers. Vysokom. seed. 1 no.6:865-868 Je '59.

(MIRA 12:10)

Þ

1. Iaboratoriya anizotropnykh struktur AN SSSR.
(Polymers) (Radicals (Chemistry))

BERLIN, A.A.; BLYUMENFEL'D, L.A.; CHERKASHIN, M.I.; KALMANSON, A.E.; SEL'SKAYA, O.G.

Polymers with conjugated bonds in the macromolecular chains. Part 2: Paramagnetism and certain other properties of polyarylvinylenes. Vysokom. soed. 1 no.9:1361-1363 S '59. (MIRA 13:3)

1. Laboratoriya anizotropnykh struktur AN SSSR. (Polymers) (Vinylene compounds)

BLYUMENFEL'D, L.A.; BERLIN, A.A.; MATVEYEVA, N.G.; KALMANISON, A.E.

Polymers with conjugated bonds in the macromolecular chains.

Part 4: Some characteristics of polymeric compounds having different atoms in the chain of conjugation. Vysokom.soed. 1 no.11:1647-1651 N '59. (MIRA 13:5)

1. Laboratoriya anizotropnykh struktur AN SSSR. (Polymers)

SHEN PEY-GEM' [Sheng P'ei-ken]; BLYUMENYEL'D, L.A.; KAIMANSON, A.E.; PASYNSEIY, A.G.

Electron paramagnetic resonance spectra of biological objects.

Report No.3: Effect of ionizing radiations on mucleic compounds.

Biofizika, 4 no.3:263-274 '59. (MIRA 12:7)

1. Iaboratoriya anizotropnykh struktur AN SSSR, Moskva, 1 Institut biokhimi1 in. A.N. Bakha AN SSSR, Moskva.

(NUCLEIC ACIDS,

eff. of radiations on electric paramagnetic resonance spectra (Rus))

(RADIATIONS, eff.

On unleic acid electric paramagnetic resonance spectra (Rus))

24(0) AUTHORS:

Blyumenfel'd, L. A., Kalmanson, A. E., 307/20-124-5-52/62

Sheng P'ei-ken

TITLE:

On the Characteristic Features of the Electron Structure of Nucleic Acids and Their Complexes With Proteins (Ob osobennostyakh elektronnoy struktury nukleinovykh kislot i ikh

kompleksov s belkami)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 5, pp 1144-1146

(USSR)

ABSTRACT:

The authors continue their investigation of the spectra of electronic paramagnetic resonance (EPR) of unpaired electrons which can be observed in biological objects in the course of fermentative reactions and in consequence of for irradiation (Refs 1-5). In the present paper a new class of biological objects was used for this purpose. In the EPR spectra of ribonucleic acid (RNA) and desoxyribonucleic acid (DNA) EPR lines of large width and integral intensity were observed. Badly depolymerized preparations (of the Speccetz orke) gave no signal. The results obtained show that in native nucleic acids and especially in their complexes with proteins huge amounts of unpaired electrons strongly interacting with

Card 1/3

On the Characteristic Features of the Electron SOV/20-124-5-52/62 Structure of Nucleic Acids and Their Complexes With Proteins

each other are present at normal temperatures. Their number lags only little behind that of free electrons in metals. This electron cloud is bound to give completely new properties to such structures. It must be taken into consideration that in this case all similarities with metals, ferromagnetics, and antiferromagnetics have to be regarded as somewhat limited. This is an effect which is localized within each macromolecule. The EPR lines recall as to their shape the spectra of conductivity electrons in metals. Apparently there exists no Fermi level in the case mentioned and all unpaired electrons participate in magnetization. This is apparently a completely new phenomenon. It is impossible to predict the physical and chemical properties of such systems because of the lack of similarities. The fact itself that a huge cloud of unpaired electrons is observed in polymeric molecules which, on the whole, contain only C, N, H, and P atoms is most astonishing and cannot yet be explained. The authors are convinced that the phenomenon they discovered plays an important part in the specific properties of the biological structures (directed synthesis, inheritance of hereditary characteristics,

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Card 2/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130001-8"

On the Characteristic Features of the Electron SOV/20-124-5-52/62 Structure of Nucleic Acids and Their Complexes With Proteins

synthesis of immune-specific proteins, memory)(Refs 6,7).
N. N. Semenov, Academician, and V. V. Voyevodskiy, Corresponding Member, AS USSR took part in the discussion of the results. There are 2 figures and 7 references, 5 of which are Soviet.

Soviet

ASSOCIATION: Laboratoriya anizotropnykh struktur Akademii nauk SSSR

(Laboratory for Anisotropic Structures of the Academy of

Sciences, USSR)

PRESENTED: January 28, 1959, by N. N. Semenov, Academician

SUBMITTED: January 27, 1959

Card 3/3

BLYUMENFEL D, L.A.; BERLIN, A.A.; SLINKIN, A.A.; KALMANSON, A.H.

New magnetic properties of macromolecular compounds having conjugated double bonds. Zhur. strukt. khim. 1 no.1:103-108 My-Je '60.
(MIRA 13:8)

1. Institut khimicheskoy fiziki AM SSSR.

(Macromolecular compounds---Magnetic properties)

83702

S/190/60/002/006/007/012 B015/B064

11.2210

AUTHORS:

Yegorova, Z. S., Malinskiy, Yu. M., Karpov, V. L.,

Kalmanson, A. E., Blyumenfel'd, L. A.

TITLE:

Chemical Changes of Polyvinylchloride Under the Influence

of Ionizing Radiations

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 6,

pp. 891-898

TEXT: The present paper investigates the dependence with time of the color change of PVC irradiated or non-irradiated under different conditions. The structural changes brought about by irradiation were also investigated. PVC powder samples and films (40, 180, and 200 μ thick) were irradiated at 293°K and 77°K in vacuum (approximately 10⁻⁴ torr), and stored in vacuum or in the air. Irradiation was made with fast neutrons with an energy of 200 kev, with a current density of 0.6 μ a/cm² being applied to the samples provided for determining the absorption spectra (on the C Φ -4 μ SF-4) spectrometer) and paramagnetic electron resonance, and for determining the infrared spectra 1.2 μ a/cm². An Card 1/3

83702

Chemical Changes of Polyvinylchloride Under the Influence of Ionizing Radiations s/190/60/002/006/007/012 B015/B064

electron accelerator with extracted beam was used as electron source. L. A. Vasil'yev irradiated the samples. In the infrared spectrum of the non-irradiated PVC (Fig. 1) a strong absorption band lies at 1256 cm⁻¹ for the -CHCl- group (Ref. 8), at 1428 cm⁻¹ for the deformation oscillations of the methylene group (Ref. 9), and at 1330 cm for the CH group (Ref. 9), at 1097 cm for the C-C bond of the carbon chain, at 960 cm-1 for the methylene group and the C-C bond of the carbon skeleton, as well as at 698 cm-1 for the C-Cl bond. The intensity of the 1256 cm⁻¹ and 698cm⁻¹ band is reduced in the spectrum of PVC irradiated in vacuum at room temperature for 3 hours which indicates a reduction of the chlorine content, as well as of the 1428 cm-1 and 960 cm indicating a reduction in the amount of methylene groups. In this connection conjugate double bonds are formed under the separation of HCl (new band in the range of 1720-1530 cm-1). The further results obtained by spectral analyses and paramagnetic electron resonance indicate that the color change of PVC is due to processes occurring under the participation of radicals. By the method of the paramagnetic electron resonance the concentration of the radicals was found to decrease with time. In vacuum, this decrease is apparently due to a recombination of the radicals,

Card 2/3

83702

Chemical Changes of Polyvinylchloride Under the Influence of Ionizing Radiations

S/190/60/002/006/007/012 B015/B064

and in the presence of air oxygen to a reaction of the latter with the free radicals under the formation of peroxide radicals. The vanishing of the free radicals is accelerated on heating, with chromophores (very likely with polyene character) being formed, intensivating the color of PVC. The infrared spectra were recorded with a device of the firm Khil'ger, model 209. There are 7 figures and 11 references: 5 Soviet.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpo (Physico-chemical Institute imeni L. Ya. Karpov). Institut
khimicheskoy fiziki AN SSSR (Institute of Chemical Physics
of the AS USSR)

SUBMITTED:

February 22, 1960

Card 3/3

SHEN PEY-GEN' [Sheng P'ei-Ken]; BLYUMENFEL'D, L.A.; KALMANSON, A.E.

ARABOTOR SEGURDARIA DE LA CARRESTA DE LA CARLO DE LA CARLO DE LA CARLO DE LA COMPANION DE LA CARLO DEL CARLO DE LA CARLO DEL CARLO DE LA CARLO DEL CARLO DE LA CARLO DEL CARLO DE LA CARLO DEL

Effect of denaturation and complex formation with proteins on the magnetic properties of nucleic acids. Biofizika 5 no. 6:645-654 760. (MIRA 13:10)

1. Institut khimicheskoy fiziki AN SSSR, Moskva i Institut biokhimii im. A.N. Bakha AN SSSR, Moskva.
(NUCLEIC ACIDS-MAGNETIC PROPERTIES)

S/051/60/009/006/014/018 E201/E191

AUTHORS:

Chernyakovskiy, F.P., Kalmanson, A.E., and

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Blyumenfel'd, L.A.

TITLE:

Electron Paramagnetic Resonance in Crystals of

Triphenylmethane Dyes vo

PERIODICAL: Optika i spektroskopiya, 1960, Vol.9, No.6, pp 786-787

TEXT: The author recorded the electron spin resonance spectra of crystal violet, basic brilliant green, malachite green, fuchsin (basic and acidic forms), fluorescein (uranin), rhodamines, thymol- and phenolphthaleins, indigo carmine and Congo red. With the exception of colourless phthaleins, coloured potassium thymolphthalein and malachite green, all the spectra were sharp singlets without hyperfine structure. Examples of such singlets are given in a figure on p. 787, where curve a represents the spectrum of crystal violet and curve for represents basic brilliant green. Experiments with water—alcohol solutions of indigo carmine and crystal violet showed that the electron spin resonance signal disappeared on dissolution and reappeared on drying. There are 1 figure and 5 Soviet references.

SUBMITTED: June 6, 1960 Card 1/1

nametine state of the land	Cell investigation by radar. Znan.sila 35 no.1:20-24 Ja '60. (MIRA 13:5)						
	Ja '60.	(Biophysics)		(HIME I):5)			

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130001-8"

KALMANSON, A.E.; LIPCHINA, L.P.; CHETVERIKOV, A.G.

Electron paramagnetic resonance study of the interaction of tumor and normal cells with semiquinone ion radicals originating from the inhibitors of free-radical processes. Biofizika 6 no.4:410-423 '61.

1. Institut khimichoskoy fiziki AN SSSR.
(CANCER) (PARAMAGNETIC RESONANCE AND RELAXATION)
(QUINONES)

SHEN PEY-GEN'; BLYUMENFEL'D, L.A.; KAIMANSON, A.E.; FASYNSKIY, A.G.

HERR PROPRIET TO A STATE OF THE SECOND PROPRIETY OF THE SECOND OF THE SE

Spectra of electronic paramagnetic resonance of biological objects. Part 4: Effect of ionizing radiations on chemically modified and denatured nucleic acid derivatives. Biofizika 6 no.5:534-547 '61. (MIRA 15:3)

1. Institut khimicheskoy fiziki AN SSSR, Moskva i Institut biokhimii imeni A.N. Bakha AN SSSR, Moskva. (NUCLEIC ACIDS-SPECTRA)

(RADIATION PHYSTOLOGICAL EFFECT)

(PARAMAGNETIC RESONANCE AND HERLANATION)

BLYUMENFEL'D, L.A.; BENDERSKIY, V.A.; KALMANSON, A.E.

Possibility of various interpretations of anomalous magnetic properties of macromolecular compounds. Biofizika 6 no.6:631-637 161. (MIRA 15:1)

1. Institut khimicheskoy fiziki AN SSSR, Moskva. (MACROMOLECULAR COMPOUNDS_MAGNETIC PROPERTIES)

YELKHOVSKAYA, Ye.S.; KALMANSON, A.E.; LIPCHINA, L.P.; TVERITINOV, V.N.; CHETVERIKOV, A.G.

Difference in the sensitivity to propl gallate in tissues of hepatoma and normal liver. Dokl. AN SSSR 139 no.4:996-998 Ag '61. (MIRA 14:7)

1. Institut khimicheskoy fiziki AN SSSR i Mpskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. Predstavleno akademikom V.N. Kondrat yevym.

(GALLIC ACID) (LIVER--TUMORS)

KALEARSON, A.E.; LIFCHERA, L.P.; CHEMYERINGY, A.G.

Difference in the sensitivity to propylgallate in proliferating and nonproliferating tissues. Dokl. AN SSSR 141 no.1:236-232 N '61. (MIRA 14:11)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom V.N.Kondrat'yevym.

(Gallic acid)
(Oxidation, Physiological)
(Radicals(Chemistry))

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130001-8 The state of the s

ALMANSON

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Yegorova, Z. S., Malinskiy, Yu. M., Karpov, V. L. Kalmanson,

A. E., Blyumenfel'd, L. A.

TITLE:

AUTHORS :

Kinetics of disappearence of free radicals in irradiated

polyvinyl chloride

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 1, 1962, 64 - 65

TEXT: The authors studied the decrease of concentration of free radicals in irradiated polyvinyl chloride in vacuo at 70 - 100°C by means of epr. Degassed polyvinyl chloride powder was irradiated with 200-kev electrons (0.6 mg/cm²) for 10 min in vacuo (about 10⁻⁴ mm Hg) at 77° K. The epr signal was recorded by the apparatus of A. G. Semenov, N. N. Bubnov (Primark) bory i tekhnika eksperimenta, 1, 92, 1959) and compared with that of the standard diphenyl picryl hydrazyl.

Card 145

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130001-8"

KALMANSON, A. E.

Dissertation defended in the Institute of Biochemistry imeni A.N.
Bakh for the academic degree of Candidate of Biological Sciences:/962

"Electronic Paramagnetic Resonance Investigation of Several Free-Radical States in Biological Objects."

1931 | 1931 | 1931 | 1931 | 1932 | 1931 | 1932 | 1932 | 1932 | 1932 | 1932 | 1932 | 1932 | 1933 | 1933 | 1933 | 1933 | 1933 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 1934 | 19

Vestnik Akad Nauk No. 4, 1963, pp. 119-145

ACCESSION NR: AT4008633

8/3039/63/000/000/0045/0052

AUTHER: Blywnenfel'd, L. A.; Kalmanson, A. E.

TITLE: Study of radiation and chemical effects on biological materials by the electron paramagnetic resonance method

ASKEPTARES (RESIDENCE TO A CONTROL OF A PROPER SPEECH OF A PROPERTY OF

SOURCE: Pervichny*ye i nachal'ny*ye protsessy* biologicheskogo deystviya radiatsii. Moscow, 1963, 45-52

TOPIC TAGS: radiation effect, chemical effect, free radical, ionizing radiation, biological structure, irradiated amino acid, irradiated protein, electron paramagnetic resonance spectrum, gamma radiation, nucleoprotein, nucleic acid, EPR spectrum, EPR method, deoxyribonucleic acid, DNA

ABSTRACT: Following an extensive review of the literature on the electron paramagnetic resonance (EPR) technique, the authors report that when crystalline amino acids in the dry state were irradiated with 106-107 r from a cobalt source, intensive EPR spectra were obtained, showing a characteristic pattern which depends on the amino acid structure. In most amino acids, 107 r caused the appearance of free radicals equivalent to about 1019

Card 1/3

ASPERANCE FOR A CONTROL OF THE TRANSPORT OF THE PROPERTY OF TH

ACCESSION NR: AT4008633 paramagnetic units/g of amino acid. The effect was due primarily to interaction of unpaired electrons with protons and with nitrogen nuclei. However, in sulfur-containing amino acids, the g-factor was altered, due to localization of the unpaired electrons in the sulfur atom. Irradiation of native proteins or of lyophilized tissues containing up to 60-80% protein gave a completely different EPR spectrum, showing a reduction in the number of free radicals by a factor of 2-3 and lacking the resolution of the spectra of the component amino acids. The spectra obtained appeared as single narrow peaks without specific structure. Similar results were obtained when enzymes were frozen and lyophilized in the presence of substrate. Irradiation of nucleic acids, nucleoproteins, DNA, and of various complex nucleic acids also revealed formation of free radicals characteristic of the nucleoside structures. However, whereas irradiation of a nucleoside produced free radicals equivalent to 1018-1019 paramagnetic units, this intensity was reduced by a factor of 2-3 when irradiation was performed on high molecular weight nucleic acids. This is considered important, since radiation damage to nucleic acid molecules is 10-50 times higher in high-molecular-weight polynucleotides than in low-molecular-weight compounds. A possible effect of added water on the electron paramagnetic resonance

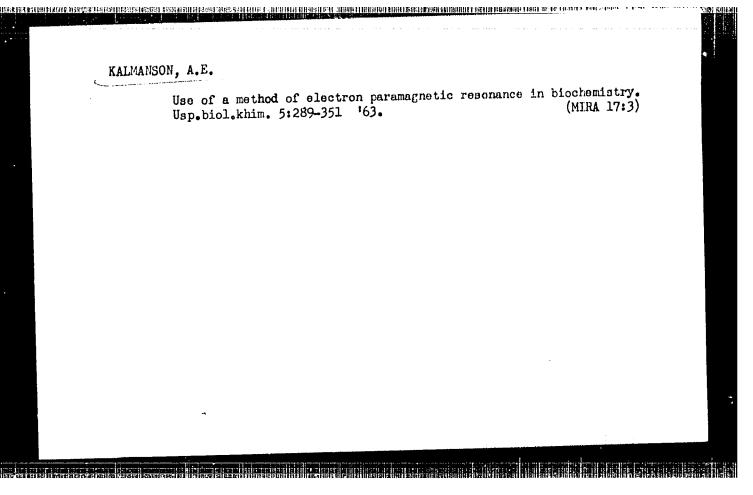
ASSOCIATION: Institut khimioheskoy fiziki AN ESSR, Moscow (Institute of Chemical Physics AN ESSR)

spectra of irradiated biological molecules is discussed.

Card 2/3

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130001-8"



KALMANSON, A.E.; KHARITONENKOV, 1.G.; CHETVERIKOV, A.G.; BLYUMENFEL D, L.A.

Vapor-flow technique in the investigation of electron spin resonance spectra of free radicals under heterogeneous conditions. Biofizika 8 no.6:722-727 '63. (MIRA 17:7)

C.E. TWORLKOV, A.G.; KALMANSON, A.E.; CHARLTONENKOV, I.G.; BLYTMENFEL'D, L.A.

Study of free radicals in biological objects generated during the course of enzymatic reactions by the electron paramagnetic resonance method. Biolizika 9 no. 1:18-24 (MIRA 17:7)

的支持支票的保证证据,全主人的保护性的支持,不是是这种的大型,但是这种的大型,一个人的工程,这个人的工程,这个人的工程,但是这种的大型,这个人的工程,这个人的工程,这个人的工程,这个人的工程,这个人的工程,这个人的工程,这个人的工程

1. Institut khimicheskoy fiziki AN SSGR, Moskva.

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ACCESSION NR: AP4022481

s/0217/64/009/002/0172/0179

AUTHOR: Kharitonenkov, I. G.; Kalmanson, A. E.; Chetverikov, A. G.; Blyumenfel'd, L. A.

TITLE: Vapor jet method of investigating the appearance and loss of heptaquinone free radicals in model biological oxidation systems

SOURCE: Biofizika, v. 9, no. 2, 1964, 172-179

TOPIC TAGS: heptaquinone free radical, biological oxidation system, oxidation-reduction reaction, ethylgallate, n-benzoquinone, vicasol, methinone, rutin, quercetin, EPR spectroscopy, vapor jet EPR spectroscopy, EPR spectrum hyperfine structure, sorbed state, soluble state, free radical concentration, argon, oxygen, solvent vapor, amplitude signal, heptaquinone molecule, electron transfer mechanism

ABSTRACT: Ethylgallate, n-benzoquinone, vicasol (a water-soluble bisulfite vitamin K derivative), methinone (water insoluble vitamin K) and flavones (rutin and quercetin) were investigated by EFR spectroscopy to determine the nature of heptaquinone free radicals formed during oxidation-reduction reactions in biological systems.

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The substances were first analyzed by standard EPR spectroscopy methods and further analyzed by a vapor jet EPR spectroscopy method developed by the authors. The advantage of the vapor jet method is that free radicals adsorbed by different proteins can be studied over a wide range of time intervals and the ionization stage can be separated from the stage when free radicals appear. With this method the reaction of direct exidation kinetics may be expressed as:

 $r_X \xrightarrow{+O_i} c_X \xrightarrow{+O_i} x$

where PX - completely reduced (hydroquinone) form of investigated compound, CX - free radical (heptaquinone) form, and X - completely oxidized (quinone) form. For the vapor jet method, a solution of the investigated substance with 1 to 2% sodium alkoxide was placed on a paper filter in an inert gas atmosphere. Then the substance was dried with an argon jet or other gas jet and placed into an ampule for EFR spectroscopy. The absence of a hyperfine structure in the standard EPR spectra for substances analyzed in a sorbed state indicated that the radicals are rigidly bound to the base. EPR spectra for the same substances in a soluble state disclosed a hyperfine structure

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indicating the presence of highly mobile heptaquinone radicals. On the basis of these results, the effects of argon, oxygen, and nitrogen jets combined with various solvent vapors on heptaquinone free radical concentrations were investigated in the substances in varying sorbed and soluble states. Amplitude signals for the various effects are presented, but no conclusions are made. Experimental data shows that heptaquinone molecules sorbed on the polar bases can transfer an electron to one another if the medium has a sufficient number of protons capable of compensating for the charges that form. Possible mechanisms for this transfer are suggested. "The authors express their gratitude to their colleagues at the State Scientific-Research Institute of Vitaminology of the Ministry of Health USSR for the vicasol, methinone, rutin and quercetin preparations." Orig. art. has: 9 figures and 3 formulas.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR, Moskva (Institute of Chemical Physics AN SSSR)

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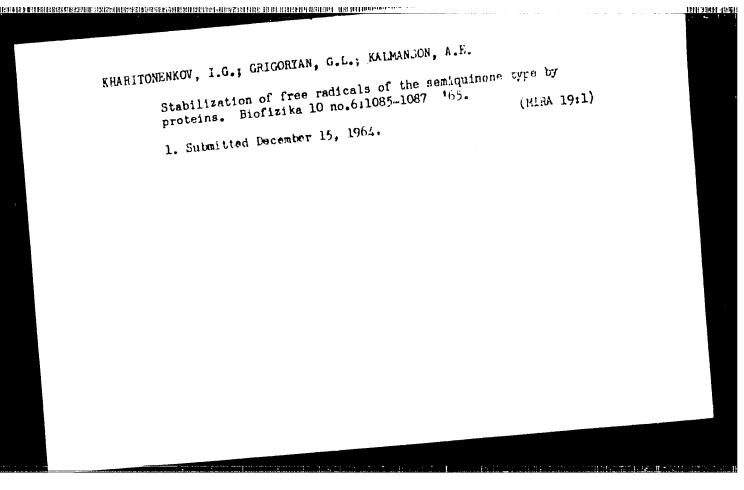
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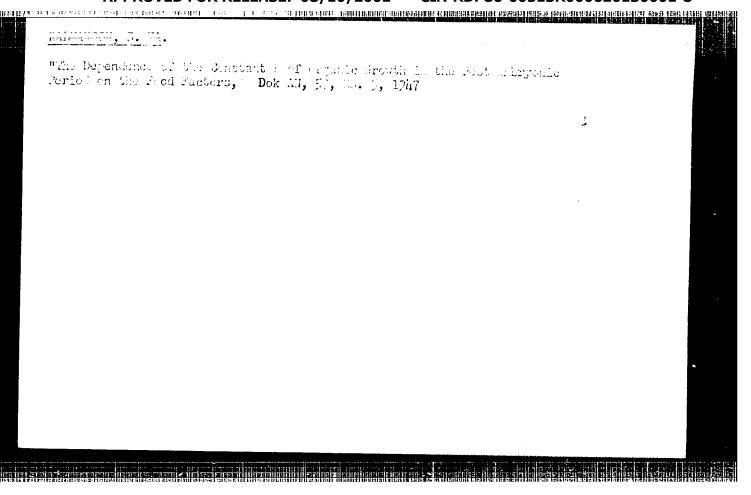
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: Kalmanson, S.Ya., Aleksandrovskiy, V.A.

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